```
'Filename:SCIFAIR↓
Lbl 0₄
Menu "which type","regular",1,"modified",2,"inclined",3,"exit",4↓
'Regular Atwood Machine↓
Lbl 1↵
"M#E5D1"?→A↓
"M#E5D2"?→B↓
(9.8 \times (B-A)) \div (A+B) \rightarrow S \triangleleft
لے
(A \times 9.8) + (A \times S) \rightarrow T \triangleleft
(B\times9.8)-T\rightarrow F \downarrow
"Tension: "↵
T⊿
"Net Force: "↵
F∡
"Acceleration: "↵
S₄
Do↵
LpWhile Getkey≈31↓
C Ir Text↓
Goto 0←
'↵
'Modified Atwood Machine↓
LbI 2↓
Menu "Friction?","Yes",5,"No",6↓
'Friction↓
LbI 5↓
"M#E5D1"?→A↓
"M#E5D2"?→B↓
"#E64Bs"?→M↓
"#E64Bk"?→U↓
If (B\times9.8)>(M\timesA\times9.8)
Then (B\times9.8)-(U\times A\times9.8)\rightarrow F \downarrow
F÷(A+B)→S↓
(B\times9.8)-(B\timesS)\rightarrow T_{\leftarrow}
Else 0→F↓
F÷(A+B)→S↓
(B\times9.8)+(B\timesS)\rightarrow T_{\leftarrow}
IfEnd₄
"Tension: "↓
T₄
"Net Force: "↵
F∡
```

Filename: AW

```
LpWhile Getkey≈31↓
Clr Text↓
Goto 0←
'No Friction↓
Lbl 6↓
"M#E5D1"?→A↵
"M#E5D2"?→B↓
(B×9.8)÷(A+B)→S↓
B×(9.8-S)→T<sub></sub>
B×9.8→F↓
"Tension: "↵
T₄
"Net Force: "↵
F∡
"Acceleration: "↵
S₄
Do↵
LpWhile Getkey×31↓
Clr Text↓
Goto 0←
'↵
'ͺ
'Inclined Plane↓
Lbl 3↓
Menu "Friction?","Yes",7,"No",8↓
'Friction↓
Lbl 7₄
"M#E5D1"?→A↓
"M#E5D2"?→B↓
"#E64Bs"?→M∠
"#E64Bk"?→U↓
"#E647"?→Tθptch₄
If B>A↓
Then If (M \times \cos T\theta ptch \times A \times 9.8) > (B \times 9.8) \downarrow
Then 0→F↓
F÷(A+B)→S↓
(B\times9.8)+(B\timesS)\rightarrow T_{\leftarrow}
Else (B\times9.8)-(U\times\cos T\theta ptch\times A\times9.8)\rightarrow F \downarrow
F÷(A+B)→S↓
(B\times9.8)-(B\timesS)\rightarrow T_{\leftarrow}
IfEnd↓
Else If ((M\times A\times 9.8\times \cos T\theta ptch)+(B\times 9.8))>(A\times 9.8\times \sin T\theta ptch) \downarrow
Then (0\rightarrow F) \downarrow
F÷(A+B)→S↓
A\times(S+(9.8\times\sin T\theta ptch)-(M\times9.8\times\cos T\theta ptch))\rightarrow T \downarrow
```

"Acceleration: "↵

S∡ Do∠

```
Else If (A\times 9.8\times \sin T\theta ptch)>((M\times A\times 9.8\times \cos T\theta ptch)+(B\times 9.8))
Then (A \times 9.8 \times \sin T\theta ptch) - ((U \times A \times 9.8 \times \cos T\theta ptch) + (B \times 9.8)) \rightarrow F \downarrow
F÷(A+B)→S↓
(A \times 9.8) + (A \times S) \rightarrow T \downarrow
Else (((U×A×9.8×cos T\thetaptch)+(B×9.8))-(A×9.8×sin T\thetaptch))\rightarrowF\downarrow
F÷(A+B)→S↓
A\times(S+(9.8\times\sin T\theta ptch)-(M\times9.8\times\cos T\theta ptch))\rightarrow T \downarrow
IfEnd↓
IfEnd↓
"Tension: "↵
T₄
"Net Force: "↵
F⊿
"Acceleration: "↵
S₄
Do√
LpWhile Getkey×31↓
Clr Text↓
Goto 0←
'No Friction↓
Lbl 8↓
"M#E5D1"?→A↓
"M#E5D2"?→B↓
"#E647"?→Tθptch₄
If B>A↓
Then ((B\times9.8)-(\sin T\theta ptch\times9.8\times A))\rightarrow F \downarrow
F÷(A+B)→S↓
(B\times9.8)-(B\timesS)\rightarrow T_{\leftarrow}
Else ((sin T\thetaptch×9.8×A)-(B×9.8))\rightarrowF\downarrow
F÷(A+B)→S↓
(B\times9.8)+(B\timesS)\rightarrow T_{\leftarrow}
IfEnd↓
"Tension: "↵
T₄
"Net Force: "↵
F⊿
"Acceleration: "↵
S₄
Do↵
LpWhile Getkey×31↓
Clr Text↓
Goto 0←
LbI 4↓
St op 

✓
```